

STN SEARCH TRANSCRIPT 10/68 L205

Winlock et al.

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卷之三

PASSWORD: TERMINAL ENTERED 1 2 3 QB 2\:\:2

specific topic.

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COMPLETE THE SURVEY - APRIL 27 THROUGH MAY 31

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1

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FILE 'HOME' ENTERED AT 12:39:19 ON 26 MAY 2006

FILE REG COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSIONS
FULL ESTIMATED COST	0.21	0.1

FILE 'REGISTRY' ENTERED AT 12:39:23 ON 26 MAY 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES:	25 MAY 2006 HIGHEST RN 885654-58-0
DICTIONARY FILE UPDATES:	25 MAY 2006 HIGHEST RN 885654-58-0

New CAS Information Use Policies, enter HELP USAGERTMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\* \* \* \* \* The CA roles and document type information have been removed from  
\* \* \* \* \* the IDE default display format and the ED field has been added,  
\* \* \* \* \* effective March 20, 2005. A new display format, IDEL, is now  
\* \* \* \* \* available and contains the CA role and document type information.  
\* \* \* \* \* \*\*\*\*\*  
Structure search iteration limits have been increased. See HELP SLII  
for details.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

=> ....Testing the current file.... screen  
ENTER SCREEN EXPRESSION OR '(END)' and  
<http://www.Cas.Org/online/ugreyprops.html>

1:1—14

A<sup>1</sup>—Cy



```

chain nodes : 7 8 9 10 11 12 13 14 15
ring nodes : 1 2 3 4 5 6
chain bonds : 1-9 4-7 7-8 9-10 9-11 9-12 13-14
ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds : 1-2 1-6 1-9 2-3 3-4 4-5 4-7 5-6 7-8 9-10 9-11 9-12 13-14
isolated ring systems : containing 1 :

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G1 [\*1, [\*2]

```

Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:Atom 15:Atom
Generic attributes :
8:

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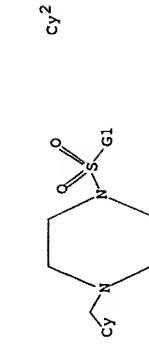
Type of Ring System : Polycyclic
13: Saturation : Unsaturated
14: Saturation : Unsaturated
Type of Ring System : Polycyclic
15: Type of Ring System : Polycyclic

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L1 STRUCTURE uploaded
=> que L1
L2 QUE L1
=> D L1
L1 HAS NO ANSWERS
L1 STR

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G1 [\*1], [\*2]

Structure attributes must be viewed using STN Express query preparation.

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=> S L1
SAMPLE SEARCH INITIATED 12:39:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2567 TO ITERATE

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77.9% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00:00:01

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FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 48301 TO 5479
PROJECTED ANSWERS: 638 TO 1518

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L3 42 SEA SSS SAM L1
=> FILE CAPLUS
COST IN U.S. DOLLARS
SINCE FILE ENTRY TOTAL SESSION
0.44 0.65
FULL ESTIMATED COST
FILE 'CAPLUS' ENTERED AT 12:39:45 ON 26 MAY 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 26 May 2006 VOL 144 ISS 23
FILE LAST UPDATED: 25 May 2006 (20060525/ED)
Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:
http://www.cas.org/infopolicy.html

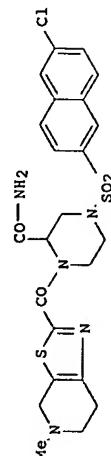
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=> S L3 10 L3  
L4 RN 875573-54-9 CAPLUS  
CN 2-Piperazineacetamide, 4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-N,N-dimethyl-1-[(4-oxidothieno[3,2-b]pyridin-2-yl)carbonyl]- (SCI) (CA INDEX NAME)

=> D 1-10 IBIB ABS HITSTR  
L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2006:64500 CAPLUS  
DOCUMENT NUMBER: 144:205119  
TITLE: Design, synthesis, and biological activity of novel Factor Xa inhibitors: Improving metabolic stability by S1 and S4 ligand modification

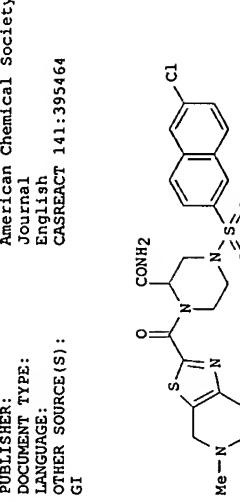
AUTHOR(S): Komoriya, Satoshi; Kobayashi, Shozo; Osanai, Ken; Yoshino, Toshiharu; Nagata, Tsutomu; Hagiwara, Noriyasu; Nakamoto, Yumi; Mochizuki, Akiyoshi; Nagahara, Takayasu; Suzuki, Makoto; Shimada, Takashi; Watanabe, Kengo; Isobe, Yumiko; Furugooji, Takefumi; Tokyo R&D Center, Daiichi Pharmaceutical Co. Ltd., 16-13, Kita-Kasai 1-Chome, Edogawa-ku, Tokyo, 134-8630, Japan & Medicinal Chemistry (2006), 14(5), 1309-1330  
CODEN: BMCECP; ISSN: 0968-0896

PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
GI

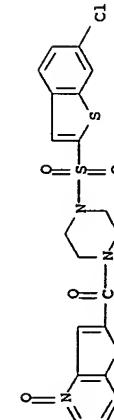


CORPORATE SOURCE:  
SOURCE:  
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:747454 CAPLUS  
TITLE: Synthesis and Conformational Analysis of a Non-Amidine Factor Xa Inhibitor That Incorporates 5-Methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine as S4 Binding Element  
AUTHOR(S): Hagiwara, Noriyasu; Kobayashi, Syozo; Komoriya, Toshiharu; Watanabe, Kengo; Hidaka, Yumiko; Furugori, Takefumi; Nagahara, Takayasu; Medicinal Chemistry Research Laboratory, Daiichi Pharmaceutical Co. Ltd., Edogawa-ku, Tokyo, 134-8630, Japan  
SOURCE: Journal of Medicinal Chemistry (2004), 47(21), 5167-5182  
CODEN: JMCMAR; ISSN: 0022-2623  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE (S): CASREACT 141:395464

I



AB Serine protease factor Xa (fXa) inhibitor I showed good ex vivo anti-fXa activity upon oral administration in rats. However, it has been revealed that I had low metabolic stability against human liver microsomes. To improve the metabolic stability, we attempted to modify the S1 and S4 ligands of I. These modifications resulted in a compound which exhibited selective anti-fXa activity and excellent anti-coagulation activity.  
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
IT 875573-53-8P 875573-54-9P  
RN 875573-53-8 CAPLUS  
CN Piperazine, 1-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-4-[(4-oxidothieno[3,2-b]pyridin-2-yl)carbonyl]- (SCI) (CA INDEX NAME)



AB Our exploratory study was based on the concept that a non-amidine factor Xa (fXa) inhibitor is suitable for an orally available anticoagulant. We synthesized and evaluated a series of N-(6-chlorophthalen-2-yl)sulfonylpiperazine derivs. incorporating various fused-bicyclic rings containing a lipophilic amine expected to be S4 binding element. Among this series, 5-methyl-4,5,6,7-tetrahydrothiazolo[5,4-c]pyridine type I displayed orally potent anti-fXa activity and evident prolongation of prothrombin time (PT) with the moderate bioavailability in rats. The X-ray crystal anal. afforded an obvious binding mode that

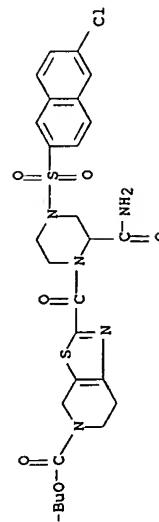
5-methyl-4,5,6,7-tetrahydrotiazolo[5,4-c]pyridine and 6-chloronaphthalene resp. bound to S4 and S1 subsites. In this X-ray study, we discovered a novel intramol. S-O close contact. Ab initio energy calcs of model compds. deduced that conformers with the most close S-O proximity were most stable. The Mulliken population anal. proposed that this energy profile was caused by both of electrostatic S-O affinity and N-O repulsion. The results of these calcs. and X-ray anal. suggested a possibility that the restricted conformation effected the affinity to S4 subsite of FXa.

IT 222981-45-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation, factor Xa inhibition activity and structure-activity relationship of (chlorophthalenylsulfonyl)piperazines bearing fused-heterocyclic rings)

RN 222981-45-3 CAPLUS  
CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 2-[(2-(aminocarbonyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl)carbonyl]-6,7-dihydro-, 1,1-dimethyl-ethyl ester (SCI) (CA INDEX NAME)



REFERENCE COUNT: 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN  
DOCUMENT NUMBER: 2003:18919 CAPLUS  
TITLE: 138:247939

Discovery of an orally efficacious inhibitor of coagulation factor Xa which incorporates a neutral PI ligand  
Choi-Slejdeski, Yong Mi; Kearney, Robert; Poli, Poli;  
Becker, Michael; Davis, Roderick; Spada, Alfred;  
Liang, Guyan; Chu, Valeria; Brown, Karen; Collussi, Dennis;  
Leadley, Robert, Jr.; Rebello, Sam; Moxey, Phillip;  
Morgan, Suzanne; Bentley, Ross; Kasielski, Charles;  
Malgman, Sebastian; Guilloteau, Jean-Pierre;  
Mikol, Vincent  
Department of Medicinal Chemistry, Aventis  
Pharmaceuticals, Bridgewater, NJ, 08807-0800, USA 684  
CODEN: JNCMAR; ISSN: 0022-2623  
American Chemical Society  
Journal  
English  
CASREACT 138:247939

CORPORATE SOURCE:

SOURCE:

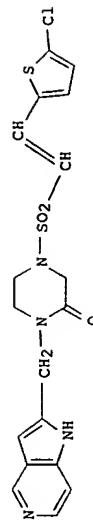
PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

OTHER SOURCE(S):

GI



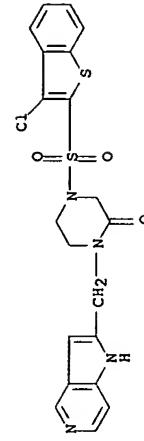
AB The discovery and SAR of ketopiperazine methylazaindole factor Xa inhibitors are described. Structure-activity data suggesting that this class of inhibitors does not bind in the canonical mode were confirmed by an X-ray crystal structure showing the neutral haloarom. bound in the S1 subsite. The most potent azaindole (I, RPR20865) is selective against related serine proteases and attains higher levels of exposure upon oral dosing than comparable benzamides and benzamidine isosteres. Compound I was efficacious in the canine AV model of thrombosis.

IT 234100-32-4P

RD: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(discovery of an orally efficacious inhibitor of coagulation factor Xa which incorporates a neutral PI ligand)

RN 234100-32-4 CAPLUS  
CN Piperazinone, 4-[(3-chlorobenzof[b]thienylsulfonyl)-1-(1H-pyrrolo[3,2-c]pyridin-2-ylmethyl)- (3CI) (CA INDEX NMN)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS ON STN  
ACCESSION NUMBER: 2001:1769282 CAPLUS  
DOCUMENT NUMBER: 135:313616  
TITLE: Heterocyclic sulfonate compounds and activated blood coagulation factor X (FXa) inhibitors containing them  
INVENTOR(S): Kobayashi, Shozo; Komoritani, Satoshi; Hagiwara, Noriyasu; Suzuki, Masanori; Yoshino, Toshiharu; Nagahara, Takayasu; Yoshihikawa, Kenji; Muto, Akira; Ozanai, Takeshi; Nakamoto, Yumi; Mochizuki, Akiyoshi; Nagata, Tsutomu  
PATENTEE: Daichi Seiyaku Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokyo Koho, 304 pp.  
CODEN: JKXXAF  
PRIORITY APPN. INFO.: OTHER SOURCE(S): MARPAT 135:313616  
AB Pharmaceuticals, useful for prevention and/or treatment of thrombus and embolus, contain Q1Q2R1S2Q2A [I, Q1 = (un) substituted bicyclic or

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001294572	A2	20011023	JP 2000-38100	20000209
OTHER SOURCE(S):			JP 2000-38100	20000209

tricyclic group; Q2 = single bond, O, S, Cl-6 alkylene, etc.; Q3 = N-containing cyclic group; QA = (uni)substituted heteroarylalkenyl, bicyclic or tricyclic group, etc.; T1 = CO, (uni)substituted methylene, etc.-], their salts, or solvates. [(2R)-2-(N-tert-butoxycarbonylamino)methyl]-6-methoxycarbonyl-1-[2,3,4-trihydronaphthalen-2-yl]sulfonylpirazine HCl, and condensed with 1-[(6-chloronaphthalen-2-yl)sulfonyl]naphthalene was treated with NaOH, deprotected to give (RS)-1..HCl [Q1 = 6-amino(methyl)-5,6,7,8-tetrahydronaphthalen-2-yl], Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl], QA = 6-chloronaphthalen-2-yl]. 1..HCl [Q1 = 5-methyl-1-4,5,6,7-tetrahydrothiophiazolo[5,4-c]pyridin-2-yl], Q2 = bond, T1 = CO, Q3 = 1,4-piperazinediyl, QA = 6-chloronaphthalen-2-yl] in vitro inhibited human FFA with IC<sub>50</sub> of 20 nM.

IT 259806-94-2P 259806-37-6P 259806-48-3P

259806-67-2P 259806-89-8P 259806-92-3P

259807-04-0P 368439-26-3P 368439-42-3P

RU: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Theapeutic use); B10L (Biological study); PREP (Preparation); USES (Uses) (preparation of heterocyclic sulfonyl compds. as activated blood coagulation factor X inhibitors)

RN 259805-94-2 CAPLUS

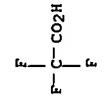
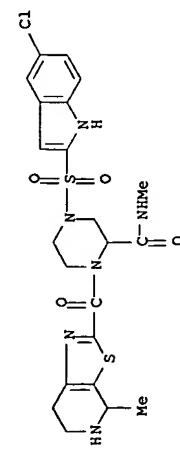
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-

[(4,5,6,7-tetrahydro-4-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monoo(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

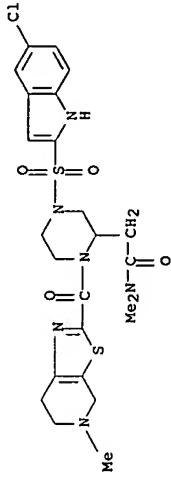
CRN 259805-93-1

CMF C22 H25 Cl1 N6 O4 S2



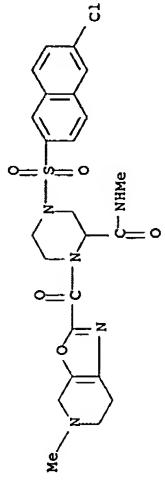
RN 259806-37-6 CAPLUS  
CN 2-Piperazineacetonitrile, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-dimethyl-1-[(4,5,6,7-tetrahydro-4-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

RN 259806-89-8 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[(4-[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-3-dipyrimidin-2-yl)acetyl]-, 1,1-dimethyllethyl ester (9CI) (CA INDEX NAME)

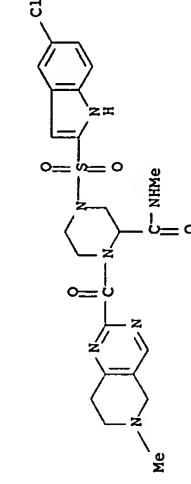


● HCl

RN 259806-48-9 CAPLUS  
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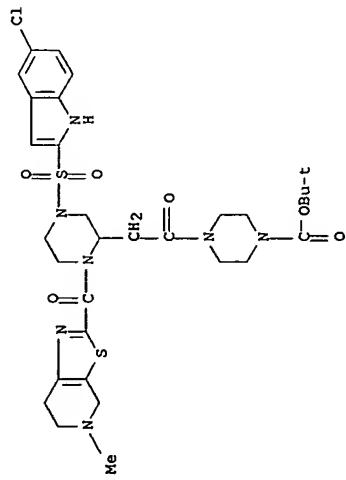


RN 259806-67-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-[(5,6,7,8-tetrahydro-4-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

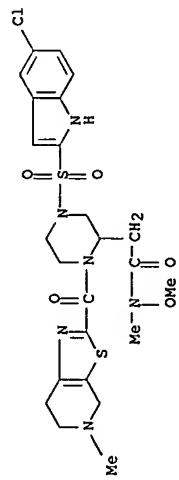


● HCl

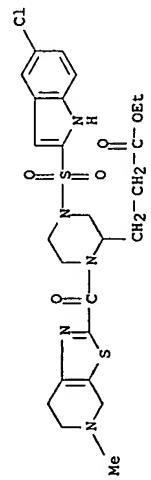
RN 259806-89-8 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[(4-[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-3-dipyrimidin-2-yl)acetyl]-, 1,1-dimethyllethyl ester (9CI) (CA INDEX NAME)



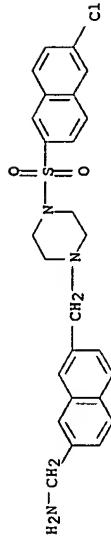
RN 259806-92-3 CAPLUS  
 CN 2-Piperazineacetamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methoxy-N-yl]carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



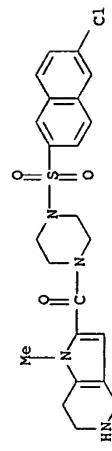
RN 259807-04-0 CAPLUS  
 CN 2-Piperazinopropanoic acid, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[(4,5,6,-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



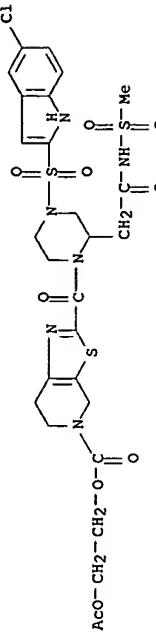
RN 368439-26-3 CAPLUS  
 CN 2-Piperazinebutanoate, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-1-[(7-(ammoniumethyl)-2-naphthalenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



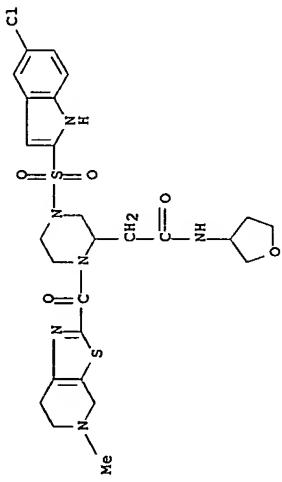
RN 368439-42-3 CAPLUS  
 CN Piperazine, 1-[(6-chloro-2-naphthalenyl)sulfonyl]-4-[(4,5,6,7-tetrahydro-1-methyl-1H-pyrazolo[3,2-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



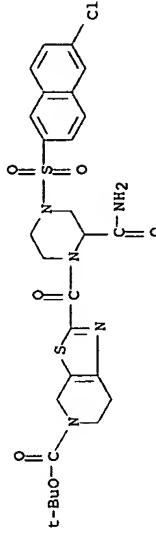
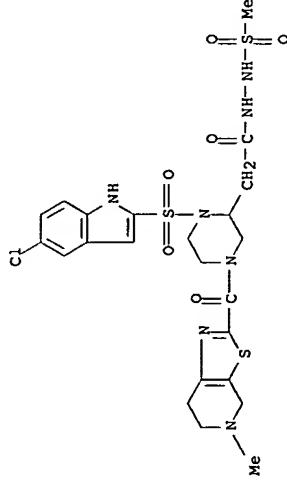
RN 368439-49-0 CAPLUS  
 CN Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 2-[(4-[(5-chloro-1H-indol-2-yl)sulfonyl]-2-(methoxymino)-1-piperazinyl]carbonyl]-6,7-dihydro-, 2-(acetoxyethyl)ethyl ester (9CI) (CA INDEX NAME)



RN 368439-57-0 CAPLUS  
 CN 2-Piperazineacetaamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-(tetrahydro-3-furanyl)-1-[(4,5,6,-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



RN 368439-65-0 CAPLUS  
CN 2-Piperazineacetic acid, 1-[(5-chloro-1H-indol-2-yl)sulfonyl]-4-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-2-(methylsulfonyl)hydrazone, monohydrochloride (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 20011636077 CAPLUS  
DOCUMENT NUMBER: 135:211057  
TITLE: Preparation of N-(tetrahydrothiazolo[5,4-c]pyridin-2-ylcarbonyl)piperazine derivatives and N-(4,5,6,7-tetrahydrothieno[3,2-c]pyridin-2-ylmethyl)piperazine derivative and method for inhibiting trypsin-type serine proteases

● Komoriya, Satoshi; Hagiwara, Noriyasu; Suzuki, Makoto  
DAIICHI PHARMACEUTICAL CO., Ltd., Japan  
PCT Int. Appl., 234 pp.  
CODE: PXXX02  
Patent  
Japanese  
1  
FAMILY ACC. NUM. COUNT:  
PATENT INFORMATION:

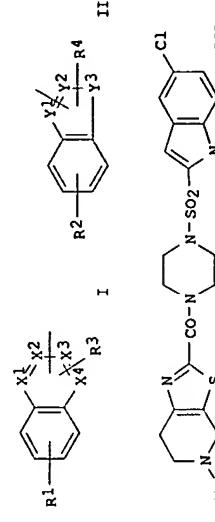
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001062763 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, E, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SJ, TJ, TM, TR, TZ, UA, US, UZ, VN, YU, ZA, ZW, RM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, NM, MZ, SD, SL, SZ, TZ, UG, 2W, AT, BE, CH, CY, DE, DK, ES, EL, FR, GB, GR, IE, IT, IU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, MI, MR, NE, SN, TD, TG	A1	20010630	WO 2001-JP1344	20010223

PRIORITY APPLN. INFO.: GI JP 2000-54370 A 20000225

● HCl

IT 222987-45-3P RL: RCT (Reactant); SPN (synthetic preparation); PREP (Preparation); RACT (Reagent or reagent)  
(preparation of heterocyclic sulfonyl compds. as activated blood coagulation factor X inhibitors)

RN 222987-45-3 CAPLUS  
Thiazolo[5,4-c]pyridine-5(4H)-carboxylic acid, 2-[[2-(aminocarbonyl)-4-[(6-chloro-2-naphthalenyl)sulfonyl]-1-piperazinyl]carbonyl]-6,7-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

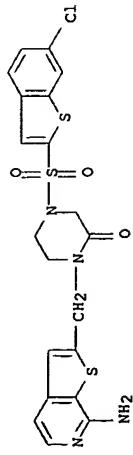


AB Trypsin-type serine protease inhibitors are compds. having groups

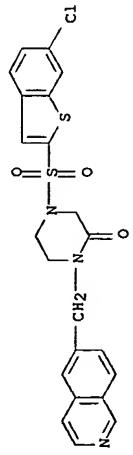


IT 234099-55-9P 234099-62-8P 234100-32-4P  
 234100-58-4P 234105-43-2P 323587-45-7P  
 323593-63-1P  
 RL: BRC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TIU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (target compound: Preparation of piperazine derivs. and other substituted oxazaheterocyclic compds. as factor Xa/IIa inhibitors)

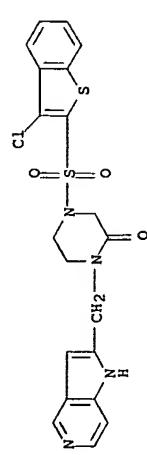
RN 234099-55-9 CAPLUS  
 CN Piperazinone, 1-[{7-aminothieno[2,3-c]pyridin-2-yl}methyl]-4-[(6-chlorobenzothien-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



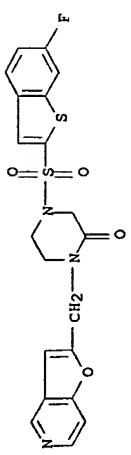
RN 234099-62-8 CAPLUS  
 CN Piperazinone, 4-[(6-chlorobenzothien-2-yl)sulfonyl]-1-[(4-isquinolinylmethyl)- (9CI) (CA INDEX NAME)



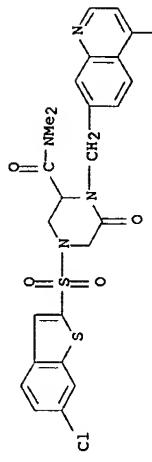
RN 234100-32-4 CAPLUS  
 CN Piperazinone, 4-[(3-chlorobenzothien-2-yl)sulfonyl]-1-(1H-pyrrolo[3,2-c]pyridin-2-ylmethyl)- (9CI) (CA INDEX NAME)



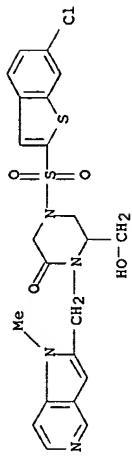
RN 234100-58-4 CAPLUS  
 CN Piperazinone, 4-[(6-fluorobenzothien-2-yl)sulfonyl]-1-(furo[3,2-c]pyridin-2-ylmethyl)- (9CI) (CA INDEX NAME)



RN 234105-43-2 CAPLUS  
 CN 2-Piperazinecarboxamide, 1-[(4-amino-7-quinolinyl)methyl]-4-[(6-chlorobenzothien-2-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

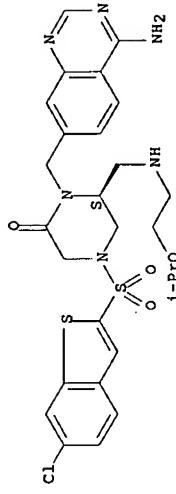


RN 323567-45-7 CAPLUS  
 CN Piperazinone, 4-[(6-chlorobenzothien-2-yl)sulfonyl]-6-(hydroxymethyl)- (9CI) (CA INDEX NAME)



RN 323593-63-1 CAPLUS  
 CN Piperazinone, 1-[(4-amino-7-quinazolinyl)methyl]-4-[(6-chlorobenzothien-2-yl)sulfonyl]-6-[[2-(1-methyllethoxy)ethyl]amino]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



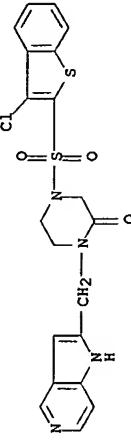
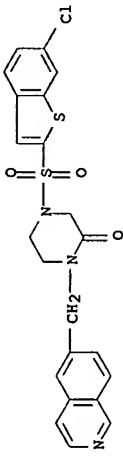
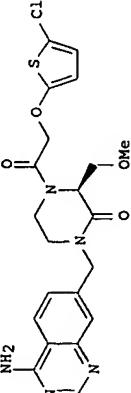
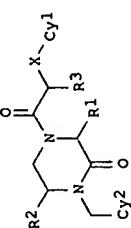
L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2000384179 CARLUS  
 DOCUMENT NUMBER: 133:30741  
 TITLE: Substituted piperazinone derivatives and other oxazaheterocyclic compounds useful as factor Xa inhibitors

INVENTOR(S): Ewing, William R.; Becker, Michael R.; Myers, Michael R.; Spada, Alfred P.  
 PATENT ASSIGNEE(S): Aventis Pharmaceuticals Products Inc., USA  
 SOURCE: PCT Int. Appl., PCT Int. Appl., 219 pp.  
 CODEN: PIIXD2  
 Patent English  
 LANGUAGE:

FAMILY ACC. NUM. COUNT: 3

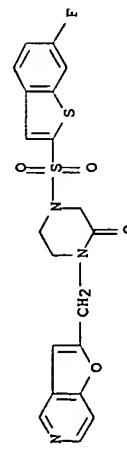
PATENT INFORMATION

PATENT INFORMATION:					
FAMILY ACC. NUM.	COUNT:	3			
WO 2000032390	A1	20000608	WO 1999-US28074	19991124	DATE
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WO 9937304	A1	19990729	WO 1999-US1682	19990127	DATE
W: AL, AM, AT, AU, AZ, BA, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HI, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NX, NY, NZ, PL, PT, RU, SD, SE, SG, SI, SK, SL, TZ, UG, W, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NE, SN, TD, TG	RN	APPLICATION NO.			
chlorobenzene[blithien-2-yl] sulfonyl- (8CI) (CA INDEX NAME)	CN	DATE			

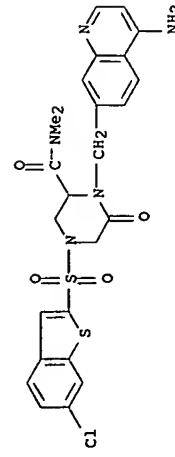


The invention is directed to piperazineones I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates [wherein R<sub>1</sub> = H, alkyl, aryl, alalkyl, heteroaryl, heterocaryaryl, alkoxy, aminoalkyl, H<sub>2</sub>CO<sub>2</sub>, CH(CH<sub>3</sub>)O<sub>2</sub>, R<sub>2</sub> = H, (un)substituted alkyl, aryl, alkoxy, heteroaryl, or heterocaryaryl; R<sub>3</sub> = H or Me; X = O, or O-Z = lower alkyl or alkoxycarbonyl; CyI = (un) substituted aryl, heteroaryl, (un)substituted aryl-heteroaryl, heterocaryyl, cycloalkenyl, hecercyclyl, etc.]. The compds. inhibit factor Xa, (no claim)

RN 234100-58-4 CAPLUS  
 CN Piperazine, 4-[(6-fluorobenzo[b]thien-2-yl)sulfonyl]-1-(furo[3,2-c]pyridin-2-ylmethyl)- (9CI) (CA INDEX NAME)



RN 234105-43-2 CAPLUS  
CN 2-Piperazineacetoxamide, 1-[(4-amino-7-quinolinyl)methyl]-4-[(6-chlorobenzo[b]thien-2-yl)sulfonyl]-N,N-dimethyl-6-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2000133658 CAPLUS  
DOCUMENT NUMBER: 132:194391

TITLE: Preparation of sulfonyl moiety-containing heterocyclic compounds as factor Xa inhibitors  
INVENTOR(S): Kobayashi, Syozi; Komochiya, Satoshi; Hadihoya, Noriyuki; Suzuki, Masanori; Toshino, Toshiharu; Nagahara, Takayasu; Nagata, Tsutomu; Horino, Haruhiko; Ito, Masayuki; Mochizuki, Akiyoshi  
DAIICHI PHARMACEUTICAL CO., LTD., Japan  
PCT INT. Appl., 883 pp.  
COPEN: PIXD2

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

## APPLICANTS

PATENT NO.	KIND	DATE	APPLICANT NO.	DATE
WO 2000039480	A1	20000224	WO 1999-JP374	19990811
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, ET, GB, CD, GE, CH, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, R2, LC, IK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UR, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, GH, GM, RE, LS, MN, SD, SL, S2, UG, ZN, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			CM 2	
JP 2000119253	A2	20000425	JP 1999-226878	19990810
CA 2340100	AA	20000224	CA 1999-2340100	19990811
AU 9951963	A1	20000306	AU 1999-51963	19990811
EP 1104754	A1	20010506	EP 1999-931024	19990811
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, IV, PT, RO  
JP 2000143623 A2  
US 6747023 B1  
US 2004082611 A1  
PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 132:194391  
AB: The title compds. Q1Q2T1Q3S0QA [wherein Q1 is an optionally substituted, saturated or unsatd., five- or six-membered cyclic hydrocarbon group, a five- or six-membered heterocyclic group, or the like; Q2 is a single bond, oxygen, sulfur, Cl-C6 alkylene or the like; Q3 is a heterocyclic ring represented by several generic structures]; Q4 is optionally substituted arylalkenyl, heteroarylalkenyl or the like; and T1 is carbonyl or the like. are prepared. These compds. have potent factor Xa inhibiting effects and promptly exert satisfactory and persistent antithrombotic effects through oral administration, thus being useful as anticoagulant agents little accompanied with side effects. Several compds. of this invention in vitro showed IC50 values of 0.7 nM to 4.7 nM against factor Xa.  
IT 259805-94-2P 259805-95-3P 259806-67-2P 259806-89-6P  
IT 259806-92-3P 259807-04-0P  
RN 259805-94-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-[4,5,6,7-tetrhydro-4-methylthiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monofluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 259805-93-1  
CHF C22 H25 Cl N6 O4 S2  
O  
Chemical structure of compound 3, showing a piperazine ring fused to a thiazolo[5,4-c]pyridine ring, which is further substituted with a 2-sulfophenyl group and an N-methyl carbonyl group.

IT 259806-48-9P 259806-67-2P 259806-89-6P  
RN 259805-94-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-[4,5,6,7-tetrhydro-4-methylthiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monofluoroacetate (9CI) (CA INDEX NAME)

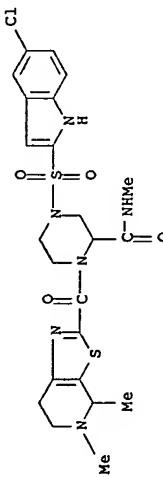
CM 1  
CRN 259805-93-1  
CHF C22 H25 Cl N6 O4 S2  
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Chemical structure of compound 4, showing a piperazine ring fused to a thiazolo[5,4-c]pyridine ring, which is further substituted with a 2-sulfophenyl group and an N-methyl carbonyl group.

IT 259806-48-9P 259806-67-2P 259806-89-6P  
RN 259805-94-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-[4,5,6,7-tetrhydro-4-methylthiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monofluoroacetate (9CI) (CA INDEX NAME)

CM 1  
CRN 259805-93-1  
CHF C22 H25 Cl N6 O4 S2  
O  
Chemical structure of compound 5, showing a piperazine ring fused to a thiazolo[5,4-c]pyridine ring, which is further substituted with a 2-sulfophenyl group and an N-methyl carbonyl group.

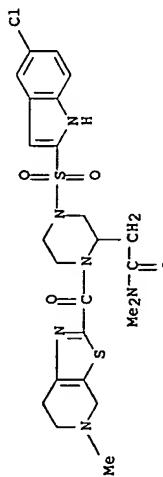
IT 259806-48-9P 259806-67-2P 259806-89-6P  
RN 259805-94-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-[4,5,6,7-tetrhydro-4-methylthiazolo[5,4-c]pyridin-2-yl]carbonyl]-, monofluoroacetate (9CI) (CA INDEX NAME)

RN 259806-95-3 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-  
[(4,5,6,7-tetrahydro-5-dimethylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



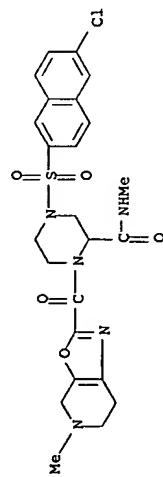
● HCl

RN 259806-37-6 CAPLUS  
CN 2-Piperazineacetamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N,N-dimethyl-1-  
[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-,  
monohydrochloride (9CI) (CA INDEX NAME)



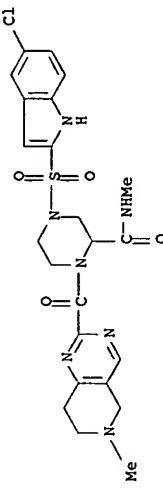
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CN 2-Piperazinecarboxamide, 4-[(6-chloro-2-naphthalenyl)sulfonyl]-N-methyl-1-  
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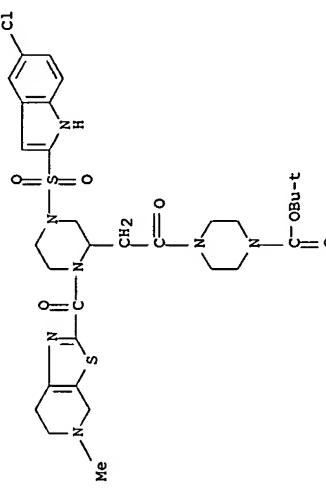
RN 259806-67-2 CAPLUS  
CN 2-Piperazinecarboxamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methyl-1-  
[(5,6,7,8-tetrahydro-6-methylpyrido[4,3-d]pyrimidin-2-yl)carbonyl]-,

monohydrochloride (9CI) (CA INDEX NAME)

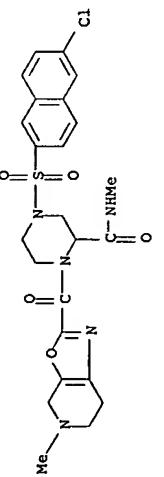


● HCl

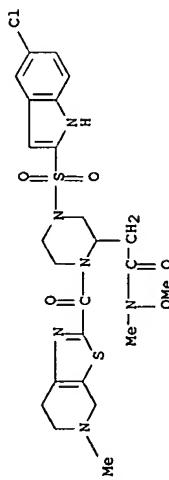
RN 259806-89-8 CAPLUS  
CN 1-Piperazinecarboxylic acid, 4-[(4-((5-chloro-1H-indol-2-yl)sulfonyl)-1-  
[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]-2-  
piperazinyl)acetyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 259806-92-3 CAPLUS  
CN 2-Piperazineacetamide, 4-[(5-chloro-1H-indol-2-yl)sulfonyl]-N-methoxy-N-  
methyl-1-[(4,5,6,7-tetrahydro-5-methylthiazolo[5,4-c]pyridin-2-  
y1)carbonyl]-, monohydrochloride (9CI) (CA INDEX NAME)



Yong Mi; Pauls, Heinz W.; He, Wei; Condon, Stephen M.; Davis, Roderick S.; Hanney, Barbara A.; Spada, Alfred P.; Burns, Christopher J.; Jiang, John Z.; Li, Alwen; Myers, Michael R.; Lau, Wan F.; Poli, Gregory B.; Rhone-Poulenc Rorer Pharmaceuticals Inc., USA

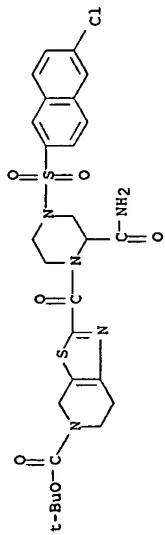


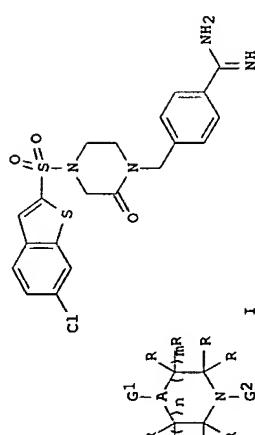
102(e)

PATENT ASSIGNEE(S) :  
SOURCE:  
DOCUMENT TYPE:  
LANGUAGE:  
FAMILY ACC. NUM. COUNT:  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9937304	A1	19900729	WO 1990-US1682	19900127	
W: AL, AM, AT, AU, AZ, BY, BG, BR, CA, CN, CU, CZ, DE, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, IR, IS, LT, LU, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZN, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NU, PT, SE, BF, BJ, CF, CG, CI, ZA 990607	A	19900727	CA 1991-607	19900127	
CA 2319198	AA	19900729	CA 1991-2119198	19900127	
AU 9926533	A1	19900809	AU 1991-25533	19900127	
AU 7454525	B2	20020321	BR 1999-7300	19990127	
BR 9907300	A	20001024	EP 1999-9066684	19980127	
EP 1051176	A1	20001115	EP 1999-9066684	19980127	
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JP 2002501024	A	20020115	EE 0000-435	19900127	
EE 200000435	A	20020115	WO 1991-US28074	19900124	
WO 2000032590	A1	20000608	CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, LZ, IR, LS, LT, LU, IV, ND, MG, MK, MN, MR, AN, NG, SI, SK, SL, TJ, TM, TR, TT, UA, NZ, PL, PT, RO, RU, SD, SE, SG, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TU, TM, RW: GH, GM, KE, LS, MW, SD, SL, SZ, T2, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CL, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
JP 2003529331	T2	20031007	JP 2000-385232	19900124	
NO 2000003908	A	20000926	NO 2000-3808	20000125	
BG 104633	A	20010330	BG 2000-104633	20000125	
US 2004102450	A1	20040527	US 2003-628093	20030725	
PRIORITY APPLN. INFO. :			US 1998-62707P	20030725	
			US 1998-110012P	20030725	
			WO 1998-110012P	20030725	
			WO 1999-313611	20030725	
			US 1999-353196	20030725	
OTHER SOURCE(S) :	MARPAT 131:130007				
GI					

REFERENCE COUNT: 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE REPORT  
L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1999-487215 CAPLUS  
DOCUMENT NUMBER: 131:130007  
TITLE: Substituted piperazine derivatives and other oxoazaheterocyclic compounds useful as factor Xa inhibitors  
INVENTOR(S): Ewing, William R.; Becker, Michael R.; Choi-Sliedjeski,



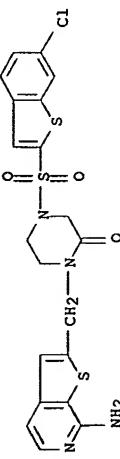


**AB** The invention is directed to oxazaheterocyclic compounds, I and their pharmaceutically acceptable salts, prodrugs, N-oxides, hydrates, and solvates [wherein A = CH, N; G1, G2 = (independently) -L-Cy; L = various atomic and mol. linkers, including O (uni) substituted NH or S alk(en)ylenes, etc., or their combinations; Cy = (uni)substituted (heteroaryl), cycloalkenyl, heterocyclyl, etc.; R = (independently) H, CO2H, alkoxycarbonyl, (uni)substituted carbamoyl, alkyl, (hetero)aryl, (hetero)alkyl, or two geminal R groups = O or S; m, n = 0, 2; with provisos]. The compounds, inhibit factor Xa (no data), and thereby the production of thrombin, and are thus useful as anticoagulants in the treatment of a wide variety of conditions. The invention is also directed to pharmaceutical compns., synthetic intermediates, and method of inhibiting factor Xa. Examples include the synthesis of approx. 780 compds. I, which are also claimed, and several hundred intermediates. For instance, sulfonamidation of 6-chlorobenzothiophene-2-sulfonyl chloride with 4-(2-oxopiperazin-1-ylmethyl)benzamidine bis trifluoroacetate (preps. given) in CH2Cl2 in the presence of Et3N gave title compound II.

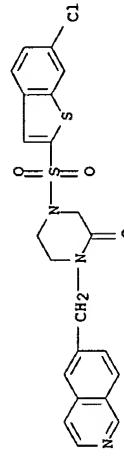
IT 234099-55-9 234099-62-8P 234105-43-2P

BL: BRC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU (therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (target compound; preparation of piperazine derivs. and other substituted oxazaheterocyclic compds. as factor Xa inhibitors)

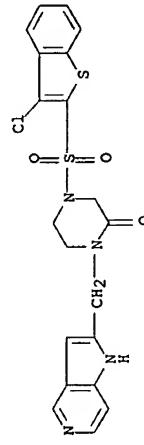
RN 234099-55-9 CAPLUS  
CN Piperazine, 1-[(-aminothieno[2,3-cl]pyridin-2-yl)sulfonyl]-1-[(6-chlorobenzothiopheno[2,3-cl]pyridin-2-yl)sulfonyl]- (9CI) (CA INDEX NAME)



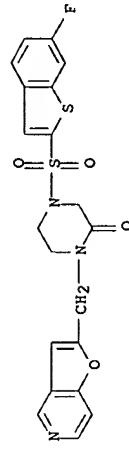
RN 234099-62-8 CAPLUS  
CN Piperazine, 4-[(6-chlorobenzothien-2-yl) sulfonyl]-1-[(6-isquinolinyl)methyl]- (9CI) (CA INDEX NAME)



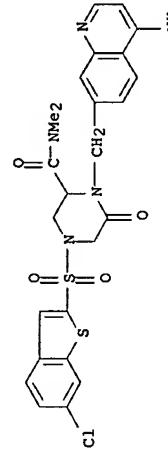
RN 234100-32-4 CAPLUS  
CN Piperazine, 4-[(3-chloro-2-ylmethyl)-c]pyridin-2-ylmethyl- (9CI) (CA INDEX NAME)



RN 234100-58-4 CAPLUS  
CN Piperazine, 4-[(6-fluorobenzothien-2-yl) sulfonyl]-1-[(furio[3,2-c]pyridin-2-ylmethyl)- (9CI) (CA INDEX NAME)



RN 234105-43-2 CAPLUS  
CN 2-Piperazinecarboxamide, 1-[(4-amino-7-quinolinyl)methyl]-4-[(6-chlorobenzothien-2-yl)sulfonyl]-N,N-dimethyl-6-oxo- (9CI) (CA INDEX NAME)



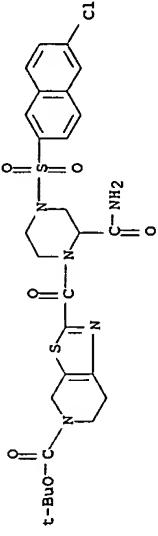
REFERENCE COUNT:

1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 1999-233901 CAPLUS  
DOCUMENT NUMBER: 130-286694  
TITLE: Preparation of heterocyclic compounds having the sulfonyl group as antithrombotics

INVENTOR(S): Kobayashi, Shozo; Komoriya, Satoshi; Ito, Masayuki;  
 Nagatsu, Tsutomu; Mochizuki, Akiyoshi; Horigoya,  
 Noriyasu; Nagahara, Takanasu; Horino, Haruhiko  
 Daichi Pharmaceutical Co., Ltd., Japan  
 PCT Int. Appl., 342 PP.  
 CODEN: PIXXD2

PATENT ASSIGNEE(S):  
 SOURCE:  
 DOCUMENT TYPE:  
 LANGUAGE:  
 FAMILY ACC. NOM. COUNT: 1  
 PATENT INFORMATION:

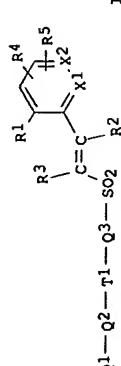


(preparation of heterocyclic compds. having the sulfonyl group as  
 antithrombotics)

RN 222987-35-3  
 CAPLUS  
 CN Triazolo[5,1-c]pyridine-5(4H)-carboxylic acid, 2-[(2-(aminoacarbonyl)-4-(6-chloro-2-naphthalenyl)sulfonyl)1-piperazineyl]-6,7-dihydro-, 1,1-dimethyl-ethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT  
 =>

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9916747	A1	19990408	WO 1998-JP411	19980930
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HR, ID, IS, IL, JP, KE, KG, KR, KZ, LC, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, UR, UG, US, VN, YU, ZW, SD, SG, MR, NL, PT, SE, BF, BJ, CF, CG, CI, RM: GH, GM, KE, LS, MW, SD, SG, ZW, AT, BB, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, NE, SN, TD, TG, AA	A1	19990408	CA 1998-2304285	19980930
AU 9812806	A1	19990423	AU 1998-92806	19980930
EP 1031563	A1	20000830	EP 1998-945542	19980930
EP 1031563	B1	20051228		
R: AR, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI	A	20010116	BR 1998-15377	19980930
BR 9815377	E	20060115	AT 1998-945542	19980930
AT 314347	B1	20030225	US 2000-508680	20000328
US 6325042	A	20000329	NO 2000-1636	20000329
NO 2000001636	A1	20031218	US 2002-323978	20021220
US 2003232808			JP 1997-267117	A 19970930
PRIORITY APPLN. INFO. :			WO 1998-JP411	W 19980930
OTHER SOURCE(S): GI			US 2000-508680	A3 20000328



AB The title compds. I [R1 is hydrogen, hydroxyl, nitro or the like; R2 and R3 are each independently hydrogen, halogeno or the like; R4 and R5 are each independently hydrogen, halogeno or the like; Q1 is an optionally substituted saturated or unsatd. 5- or 6-membered cyclic hydrocarbon group or the like; Q2 is a single bond, oxygen or the like; Q3 is heterocyclic moiety represented by 4 generic structures]; T1 is carbonyl or the like; and X1 and X2 are each independently methine or nitrogen) are prepared I orally administration and cause few adverse effects. In an in vitro test for inhibition of activated blood coagulation factor X, I-[6-chloronaphthalen-2-yl]sulfonyl]-4-[(6-methyl-4,5,6,7-tetrahydrothiophenol[5,4-c]pyridin-2-yl]carbonyl)piperazine hydrochloride showed the Ki value of 6.6 nM.

IT 222987-35-3P  
 RU: RCT (Reactant); SPN (Synthetic Preparation); PREP (Preparation); RACT (Reactant or reagent)